

DERWENT-ACC-NO: 2001-473909

DERWENT-WEEK: 200324

COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Method for performing inter-processor communication  
using coupled message queue with shared memory

INVENTOR: KIM, Y J; LEE, S G

PATENT-ASSIGNEE: KOREA ELECTRONICS & TELECOM RES  
INST[KOELN]

PRIORITY-DATA: 1999KR-0029074 (July 19, 1999)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
KR 356919 B		October 19, 2002	N/A
000	H04L 012/00		
KR 2001010275 A		February 5, 2001	N/A
001	H04L 012/00		

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-DESCRIPTOR	APPL-NO
KR 356919B		N/A	1999KR-
0029074	July 19, 1999		
KR 356919B		Previous Publ.	KR2001010275
N/A			
KR2001010275A		N/A	1999KR-
0029074	July 19, 1999		

INT-CL (IPC): H04L012/00

ABSTRACTED-PUB-NO: KR2001010275A

BASIC-ABSTRACT:

NOVELTY - A method for performing IPC(Inter-Processor Communication) is provided to pass a message parameter through a shared memory and to pass address information and a message name through a message queue, to couple a message queue system with a shared memory system, so as to increase capacity efficiency of an application in which the IPC is frequently used.

DETAILED DESCRIPTION - An event control block (14) transmitted by a process A(12) is received in a processB(13) by a receiving system call of a message queue of an operating system.

The processB(13) firstly obtains a message name(20), an operation variable(21), and a user control block address information(22) from the received event control block (14). The user control block address information(22) is allocated by the process A(12) on a shared memory(11). The process A(12) is capable of accessing a user data block(16) for setting up a message parameter(23) with the allocated user control block address information(22). The process B(13) is capable of obtaining the message parameter(23) on the basis of the user control block address information(22). All information such as the message name(20), the operation variable(21), and the message parameter(23) which the process A(12) attempts to transmit, is exactly transmitted to the process B(13).

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: METHOD PERFORMANCE INTER PROCESSOR COMMUNICATE  
COUPLE MESSAGE  
                QUEUE SHARE MEMORY

DERWENT-CLASS: W01

EPI-CODES: W01-A06;